June 25, 2018

**Office of Technology Operations and Planning**
**Office of Environmental Information**
**National Computer Center**
**Center for Environmental Computing**

# REMOTE SENSING SERVICES REQUEST FORM

## SITE DATA

***Site Name*:** *Griggs & Walnut*

**Site/Spill ID (4 characters):** *06HZ* **EPA ID (12 characters):** *NM0002271286*

***Program (select applicable):***

☒ **SF (Superfund)** ☐ **RCRA** ☐ **CWA** ☐ **Other (specify)**: *Click here to enter text.*

***Purpose (select applicable):***

☐ **Emergency Response** ☒ **Remedial** ☐ **Removal** ☐ **Enforcement** ☐ **Other (specify):**

***Geospatial Data:***

***An ESRI Shapefile or a digital MAP WITH Coordinates SHOWING THE STUDY AREA IS REQUIRED IN ORDER TO PROCESS YOUR REQUEST.***

**State:** New Mexico **County:** ***Dona Ana*** **City:** *Las Cruces*

**USGS Quad Name:** ***(if known)*** *Click here to enter text.*

## CUSTOMER INFORMATION

***Region:*** *Region 6* *Requester:* David Eppler
***Phone Number:*** 214-665-6529 *Fax Number:* *Click here to enter text.*
***Email Address:*** eppler.david@epa.gov
***Backup – Alternate Requester:*** **Name:** *James Costello* Email: *costello.james@epa.gov*

**SITE HISTORY**: Provide a brief discussion of site history on the ***last page of this form***; detail specific problems at site, what you hope to accomplish, etc. Elaborate on known or suspected aspects of site operation (e.g., barrels believed dumped between 1967 and 1972 adjacent to north lagoon). Please provide background information about the site such as site descriptions, action memos, etc. Wherever possible, please provide bibliographic references for any documents to which you refer.

**IMPORTANT: PLEASE EMAIL SCANNED *.pdf copy of this form and all associated service request support data to richards.tim@epa.gov (A COMPLETED PACKAGE shall include the following: THIS FORM, BACKGROUND INFORMATION AND MAP and/or Shapefile SHOWING THE SITE AND/OR STUDY AREA BOUNDARIES). Email Questions to richards.tim@epa.gov**

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## STANDARD REQUEST OPTIONS

### 1. Historical Photos

**Study Period:** *1950* **to** 1960
**Years to focus on (specify):** **1940, 1950, 1960, 1970, 1980, 1990, 2000,, 2010, and 2018**

**a.** ☒ **Photos Only (average turnaround time is 6-10 weeks)**

☐ **9" x 9" prints no. of copies _____**

☐ **16" x 16" prints no. of copies _____**

☒ **Digital (CD) no. of sets** *2*

**b.** ☐ **Analysis of Historical Photos (average turnaround time 18-24 weeks; see Analysis Deliverables below and attached Standard Site Analysis Package information sheet)**

☐ **Interim Report -- -- one copy only**

☐ **Analysis Report (12" x 11") no. of copies _____**

☐ **Oversized Analysis Report (17" x 22") no. of copies _____**

### 2. New Aerial Imagery Acquisitions (aerial or Satellite)

**a.** ☐ **Photos Only (average turnaround is 4 weeks, weather dependent)**

☐ **9" x 9" prints no. of copies _____**

☐ **16" x 16" prints no. of copies _____**

☐ **Digital (CD) no. of sets _____**

**b.** ☐ **Analysis of Overflight Photos (average turnaround time is 6 weeks; see Analysis Deliverables below)**

☐ **Analysis Report (12" x 11") no. of copies _____**

☐ **Oversized Analysis Report (17" x 22") no. of copies _____**

**ANALYSIS DELIVERABLES:**

**Interim Report:** if information is needed prior to delivery of final Analysis Report (unbound format, hand-drafted overlays with typed narrative text)

**Analysis Report:** contains aerial photo analysis overlays and supporting narrative text; report size is 12" x 11" and contains 9" x 9" photo prints.

**Oversized Analysis Report:** same as analysis report, but contains enlarged aerial analysis overlays and supporting narrative text; report size is normally 17" x 22" and contains 15"x15" aerial photo enlargement prints.

# SPECIAL REQUEST OPTIONS

The following remote sensing and mapping products and services are also available for sites with conditions that warrant their use. Check off items of interest and contact the Project Officer for more information.

☐ **Site Discovery/Inventory Process: a regional search using high altitude aerial photos to discover potential waste disposal sites.**

☐ **Land Use/Cover Analysis: uses aerial photographs to map a variety of land use and cover types within a specified distance from a site.**

☐ **Fracture Trace Analysis: maps lineaments at the ground surface which are suggestive of fracture zones in underlying bedrock.**

☐ **Wetland Mapping/Assessment: maps wetland/upland boundaries, vegetation composition, etc. using established wetlands classification schemes.**

☐ **Multispectral Scanner Overflight: used to acquire digital multispectral data of a site or area.**

☐ **Thermal Infrared Scanner Overflight: collects data on a site or area for detecting and mapping features such as outfalls, springs, underground fires, etc.**

☐ **Photogrammetric Mensuration: uses aerial photographic measurement methods to conduct, e.g., barrel/drum counts, lagoon dimensions, volumes of deposited materials, size/depth of excavations.**

☐ **Satellite Data: acquires digital remote sensing data from orbiting satellites such as Landsat, SPOT, IKONOS, etc. and provides output products from analysis of the data.**

☐ **GIS Products: provides analysis and products resulting from the application of Geographic Information Systems technology.**

☒ **Mapping Products: the production of topographic, or thematic maps from analysis of remote sensing data.**

☒ **Scanned Aerial Photos on CD-ROM: provides aerial photographic information in digital form through the scanning of aerial photographs. Data may be provided in .tif, .jpeg, .bmp, or other formats for ingestion into, and use within, computer processing systems.**

# STANDARD SITE ANALYSIS PACKAGE

The following elements are included in a standard analysis of waste disposal site:

- **The geographic location and context of the site (site size plus latitude and longitude of center of the site, roads, waterways, proximity to surrounding cities and towns, etc.).**
- **General condition or layout of the site (including changes in infrastructure that may be environmentally significant).**
- **Tanks and Drums**
  - **Condition of tanks and drums (rusty, leaky, etc.)**
  - **Stains (stains on ground, buildings, around tanks and drums)**
  - **Housekeeping practices (poor appearance or maintenance of tanks and drum storage areas)**
- **Standing liquids from spills, drainage, etc.**
- **Containment for surface runoff, chemical storage, and disposal areas**
- **Surface drainage of site for one year of photo coverage. Changes will be identified.**
- **Visible leakage or leachates from site.**
- **Trenches, fills, and other waste burial areas within and around site (positive, probable, and possible).**
- **Fencing or other boundary markers/structures around perimeter of site and gate access.**
- **Types of impoundments for pits, ponds, and lagoons (lined, earthen dam, etc.).**
- **Vegetation stress/damage**
- **Disturbed areas (including scarred and graded areas and mounded materials).**
- **Access routes to site and equipment in use at the site.**

**SITE HISTORY**:

The Griggs & Walnut Ground Water Plume is centered near the intersection of Griggs Avenue and Walnut Street in the city of Las Cruces in Dona Ana County, New Mexico. The area of the plume is about 2,500 feet wide by 4,000 feet long. In 1993, the New Mexico Environment Department (NMED) discovered tetrachloroethylene (PCE) contamination in the City of Las Cruces (CLC) municipal supply wells. Dissolved PCE was detected upgradient and downgradient of four affected municipal supply wells. The site is being addressed through federal, state and potentially responsible party (PRP) actions.

NMED first detected low concentrations of PCE in water samples from two CLC municipal water supply wells, Wells 21 and 27, in August 1993. The concentrations of PCE were well below the drinking water maximum contaminant level (MCL) of 5 micrograms/liter (µg/L) established for PCE by EPA. In January 1995, a water sample from a third municipal well, Well 18, while it was off-line following repairs, contained 32 µg/L of PCE. Concentrations of PCE in follow-up samples were less than 2.0 µg/L. Regular follow-up sampling of Well 18 continued. In January 1996, another sample from Well 18 contained 6.4 µg/L of PCE, but the concentrations of PCE in confirmation samples were 1.0 µg/L or less. Although the confirmation results indicated that PCE concentrations in water from Well 18 were below the MCL, Well 18 was permanently removed from service in September 1996 by the CLC as a precaution.

We wish to get aerial photography of Parcel 3 (see attached map) for every ten years to present starting from 1940 to show how the use of the property has changed since the City of Las Cruces took control of the property.